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## CLAIMS

1. A compound of structural formula (I), as an activators of Histone acetyltransferases, containing ring A derived from substituted benzoic acid moiety and ring B is substituted anilide wherein:

- 5 R1 is H, Methyl, Ethyl, n-Propyl, Isopropyl, n-butyl, t-butyl, C<sub>8</sub>H<sub>18</sub>,C<sub>15</sub>H<sub>26</sub>, C<sub>15</sub>H<sub>28</sub>, C<sub>15</sub>H<sub>30</sub>, C<sub>15</sub>H<sub>32</sub>;
  - **R2** is H, methyl, ethyl, n-propyl, isopropyl, n-butyl and t-butyl;
  - R3 is H, methyl, ethyl, n-propyl, isopropyl, n-butyl and t-butyl, CF<sub>3</sub>, CCl<sub>3</sub>, CI<sub>3</sub>, F, Cl, I, NO<sub>2</sub>, CN;
- 10 **R4** is H, methyl, ethyl, *n*-propyl, isopropyl, *n*-butyl and *t*-butyl, CF<sub>3</sub>, CCl<sub>3</sub>, CI<sub>3</sub>, F, Cl, I, NO<sub>2</sub>, CN;
  - **R5** is H, methyl, ethyl, n-propyl, isopropyl, n-butyl and t-butyl, CF<sub>3</sub>, CCl<sub>3</sub>, CI<sub>3</sub>, F, Cl, I, NO<sub>2</sub>, ;
  - R6 is H, methyl, ethyl, n-propyl, isopropyl, n-butyl and t-butyl, CF<sub>3</sub>, CCl<sub>3</sub>, CI<sub>3</sub>, F, Cl,
- 15 I, NO<sub>2</sub>, CN; and
  - **R7** is H, methyl, ethyl, *n*-propyl, isopropyl, *n*-butyl and *t*-butyl,  $CF_3$ ,  $CCl_3$ ,  $CI_3$ , F, Cl, I,  $NO_2$ , CN.
  - 2. A compound of structural formula (II) for ring A of formula (I) the accompanying drawings for inhibitor of Histone acetyltransferases, wherein:
- 20 R1 is H, CH<sub>3</sub>, Hydroxyl, Carboxylic, O-Methoxy, O-Ethoxy, n-Propoxy, O-Isopropoxy, n-butoxy, t-butoxy, C<sub>8</sub>H<sub>18</sub>, C<sub>15</sub>H<sub>26</sub>, C<sub>15</sub>H<sub>28</sub>, C<sub>15</sub>H<sub>30</sub>, C<sub>15</sub>H<sub>32</sub>;
  - R2 is H, CH<sub>3</sub>, Hydroxyl, Carboxylic, O-Methoxy, O-Ethoxy, n-Propoxy, O-Isopropoxy, n-butoxy, t-butoxy, C<sub>8</sub>H<sub>18</sub>, C<sub>15</sub>H<sub>26</sub>, C<sub>15</sub>H<sub>28</sub>, C<sub>15</sub>H<sub>30</sub>, C<sub>15</sub>H<sub>32</sub>.
  - R3 is H, CH3, Hydroxyl, Carboxylic, O-Methoxy, O-Ethoxy, n-Propoxy, O-
- 25 Isopropoxy, n-butoxy, t-butoxy,  $C_8H_{18}$ ,  $C_{15}H_{26}$ ,  $C_{15}H_{28}$ ,  $C_{15}H_{30}$ ,  $C_{15}H_{32}$ ;
  - R4 is H, CH<sub>3</sub>, Hydroxyl, Carboxylic, O-Methoxy, O-Ethoxy, n-Propoxy, O-Isopropoxy, n-butoxy, t-butoxy, C<sub>8</sub>H<sub>18</sub>, C<sub>15</sub>H<sub>26</sub>, C<sub>15</sub>H<sub>28</sub>, C<sub>15</sub>H<sub>30</sub>, C<sub>15</sub>H<sub>32</sub>.
  - R5 is H, CH<sub>3</sub>, Hydroxyl, Carboxylic, O-Methoxy, O-Ethoxy, n-Propoxy, O-Isopropoxy, n-butoxy, t-butoxy, C<sub>8</sub>H<sub>18</sub>, C<sub>15</sub>H<sub>26</sub>, C<sub>15</sub>H<sub>28</sub>, C<sub>15</sub>H<sub>30</sub>, C<sub>15</sub>H<sub>32</sub>;

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**R6** is H, CH<sub>3</sub>, Hydroxyl, Carboxylic, O-Methoxy, O-Ethoxy, n-Propoxy , O-Isopropoxy, n-butoxy, t-butoxy,  $C_8H_{18}$ ,  $C_{15}H_{26}$ ,  $C_{15}H_{28}$ ,  $C_{15}H_{30}$ ,  $C_{15}H_{32}$ .

- 3. A process of preparing compounds as described in formula  $\Pi$  by known methods.
- 4. A method of treating a patient suffering from diseases due defects in gene regulation predominantly or at risk of, cancer, which comprises administering to the patient a therapeutically effective amount of a compound of formula (I) to activate histone acetyltransferases or formula (II) to inhibit histone acetyltransferase or a pharmaceutically acceptable salt or solvate of these compounds.

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